

**SEPARABLE MODULATOR****BACKGROUND**

This application is a continuation-in-part of US Patent Application No.

- 5 10/078,282, filed February 19, 2002, which is a divisional of application No. 09/991,378  
filed on November 21, 2001, which is a continuation of application No. 08/769,947 filed  
on December 19, 1996, now abandoned, which is a continuation-in-part of application  
No. 08/238,750 filed on May 5, 1994, now Patent No. 5,835,255, and ~~which~~ is a  
continuation in part of application No. 08/554,630 filed on November 6, 1995, now  
10 abandoned.

Spatial light modulators used for imaging applications come in many different  
forms. Transmissive liquid crystal device (LCD) modulators modulate light by  
controlling the twist and/or alignment of crystalline materials to block or pass light.

- Reflective spatial light modulators exploit various physical effects to control the amount  
15 of light reflected to the imaging surface. Examples of such reflective modulators include  
reflective LCDs, and digital micromirror devices (DMD™).

- Another example of a spatial light modulator is an interferometric modulator that  
modulates light by interference, such as the iMoD™. The iMoD employs a cavity having  
at least one movable or deflectable wall. As the wall, typically comprised at least partly  
20 of metal, moves towards a front surface of the cavity, interference occurs that affects the  
color of light viewed at the front surface. The front surface is typically the surface where  
the image seen by the viewer appears, as the iMoD is a direct-view device.

- Currently, iMoDs are constructed of membranes formed over supports, the  
supports defining individual mechanical elements that comprise the picture elements  
25 (pixels) of an image. In a monochrome display, such as a display that switches between